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ART 34 AMDTPatent Claims

1. A multifunctional antenna having the following features:
- 5 - the antenna device comprises at least four antennas (A, B, C, D),
- one antenna (C) is suitable for receiving satellite signals, in particular digital satellite signals,
- 10 - one antenna (A) is provided for receiving terrestrial signals, in particular terrestrially emitted radio programs,
- one antenna (D) is provided for the mobile radio field and
- 15 - one antenna is provided for determining the geoposition, and
- the at least four antennas (A, B, C, D) are arranged in a prescribed sequence on a chassis (1), specifically the antenna (A) for receiving the
- 20 terrestrially emitted signals is arranged at one end, followed by the antenna (B) for determining the geoposition, followed by the antenna (C) for receiving satellite signals, and followed by the antenna (D) for the mobile radio field.
- 25
2. The multifunctional antenna as claimed in claim 1, characterized in that the center-to-center distance between the terrestrial antenna (A) and the adjacent antenna (B) for geopositioning is smaller than the
- 30 center-to-center distance between the antenna (B) and the adjacent antenna (C) for receiving satellite signals.
3. The multifunctional antenna as claimed in claim 1
- 35 or 2, characterized in that the center-to-center distance between the antenna (B) for geopositioning and the adjacent satellite antenna (A) is smaller than the

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center-to-center distance between the antenna (C) and the antenna (D) for the mobile radio field.

4. The multifunctional antenna as claimed in one of
5 claims 1 to 3, characterized in that the three adjacent
antennas (A), (B), (C) are arranged on the longitudinal
region of the chassis (1), which amounts to less than
60% of the overall length of the chassis (1).
- 10 5. The multifunctional antenna as claimed in one of
claims 1 to 4, characterized in that the antenna (C)
for receiving the satellite signals consists of a patch
antenna.
- 15 6. The multifunctional antenna as claimed in one of
claims 1 to 5, characterized in that the antenna (B)
for carrying out geopositioning consists of a patch
antenna.
- 20 7. The multifunctional antenna as claimed in one of
claims 1 to 6, characterized in that the antenna (A)
for receiving terrestrial signals consists of at least
a monopole, preferably in the form of a rod.
- 25 8. The multifunctional antenna as claimed in one of
claims 1 to 7, characterized in that the antenna (D)
for the mobile radio field is suitable for receiving at
least in one mobile radio frequency band, preferably in
at least two and preferably in at least three frequency
30 bands.
9. The multifunctional antenna as claimed in claim 8,
characterized in that the antenna (D) for the mobile
radio field consists of electrically conducting
35 surfaces that are formed on a substrate, in particular
a printed circuit board.
10. The multifunctional antenna as claimed in one of
claims 1 to 9, characterized in that all the antennas

(A, B, C, D) are arranged on the chassis (1) beneath a fin-like housing cover (9).

11. The multifunctional antenna as claimed in one of
5 claims 1 to 10, characterized in that the antenna (A)
for receiving the terrestrially emitted signals is
arranged in the leading region (3) of the chassis (1)
such that the antenna (D), seated furthest therefrom,
for the mobile radio field is arranged in the trailing
10 region (9) on the chassis (1).

12. The multifunctional antenna as claimed in one of
claims 1 to 11, characterized in that in plan view the
chassis is fashioned like a boat or surfboard or at
15 least similarly.